



**zx mushroom club**

1000  
WORD PAGE FILE  
OF YOUR CHOICE  
TELE 515-1234

# NEW THE Z88



## Commands

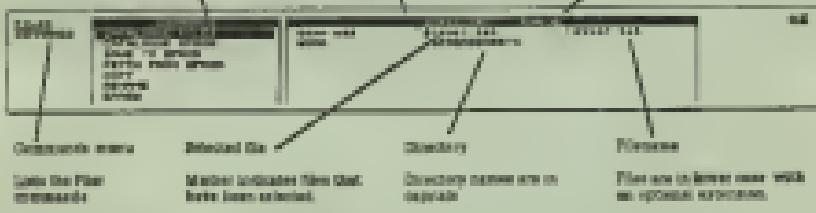
Allows a file name and its contents to be selected and executed.

## Directory Window

Lists all the files and directories in the current directory.

## Directory

Selects the currently selected device and directory.



## THE FOLLOWING ARE ON THE SHIPMENT TRUCK 18-GO-ON AUGUST 1st.

Microdrives: 3 1/2" Drives	475.00	Burnell Big 4	35.00
Micro Disk and Lease	3.00	Country Hits	35.00
GL to 3MII Printer Cable	20.00	Vince Genn	35.00
View to a Bill	25.00	Hydro Fuel	35.00
Light Forces	25.00	California 4 Chorus	35.00
480 Stock Manager	25.00	Glacier Rider	35.00
Lead of the Rings	25.00	Short Circuit	35.00
Interface 2	25.00	Band Ball	35.00
Ballistics - Australia	180.00	The Face 1982	35.00
Ballistics - USA	180.00	Adm	35.00
Ballistics One (Special)	180.00	The Refer	35.00
FBI Strike Eagle	10.00	Elect Service	35.00
Java Boxes	35.00	One Summer	35.00
BLT Book & From Books	25.00	Softball	35.00
Dan Davis	25.00	A Great Guess	35.00
Theta Finest Beer	25.00	Smashbox II	35.00
Little Computer People	25.00	Sexton	35.00
Leader Board	25.00	GL	35.00
Stars on 12th	25.00	Cartridge (Incredible)	35.00
Scoutlet	25.00	Multiple Ver 2.0	35.00
Spit Disney	25.00	Entertainment Free Romantic Robert	35.00
See of Jones	25.00		
Buf Wiedenhofer Books	25.00		

I have some tips on this great game from OCEAN. To start with go to room C, activate the BBB box and you will find a bag of provisions. Take the bag and drop it near the guard Geri captured and when you are released get the bag again and drop it in room C. Activate the second box. You will find a pair of wirecutters. Drop the wirecutters next to the bag. Now go to room E. Take the key you find there and go to room D. Then go R.D.P.D.A.N. Take the German uniform and activate it. Keep dropping it and activating it until you have full morale and use it to have it traced up. Go back to where you left the wire cutters and drop the wirecutters near a guard Geri captured. When you are released get the wirecutters and go and activate the east box in room C. You will find a knife (this is not used to escape). Once it is freed of a guard get caught and take it to room C. Activate the final box and you will find a compass. Tie up your morale with the uniform and you are ready to begin your Great Escape.

Take the wire cutters and the bag of provisions and head down and across to the morale area. As soon as it is morale time go into the morale area and cut the ice fence near the gate and the watchtower. When you are through, drop the provisions and go back to the map for the compass so the map for the compass. When you have got the compass out drop the wirecutters and pick up the provisions. If you have no compass and the provisions walk off the screen. A message appears saying that you have escaped and will cross the border safely.

#### The Terms:

**compass** -- this is used in the escape. If you do not have it you will be captured.

**knock** -- used to explore tunnels

**knife** -- activates and gives to a prisoner; a diversion will be caused

**provisions** -- used in escape

**propane** -- can be used instead of provisions

**lockpick** -- careful to unlock doors

**spikes** -- sharp blockade in tunnel

**keys** -- unlock doors

**radio** -- your guess is as good as mine

**salmon** -- salmon food

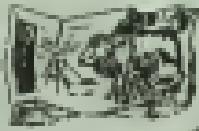
**food** -- can be purchased but what else?

**uniform** -- allows access to places out of bound

How do you get the subject in the bottom left?



Our Editor is a festive mood at the annual INFORMATION ENTERPRISES conference. And how he liked it, he muttered "Well done".



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Versatility, excellent printing quality, the real 3D-printer

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- Water-based inkjet printing by 24 ppm
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  - Quick print for continuous office (as low as 30 s/shot)
  - Variety of printing media (Coated Matt, Glossy Coated, Semi-Gloss, Matt, Transparency, Self-adhesive and Uncoated)
  - 3D look of high resolution via addressable graphic printing
  - Automatic paper loading and ejection system
  - Continuous character setting maximum 128 characters
  - Switch image setting by the first page
  - Adjust in 10% of buffer
  - Connect Automatic Cut Sheet Feeder



10 of 10

Specification	
Printing Method	Electro-Static (Ion Matrix Method)
Resolution	600 dpi horizontal x 600 dpi vertical 2400 dpi (grayscale printing)
Print Speed	24 ppm
Print Quality	Normal, Extra Fine
Print Media	Normal, Extra Fine
Scanning	Up to 600 dpi
Line Resolution	1200 dpi (1200 x 1200)
Line Scan Speed	0.3 mm/sec. to 100 mm/sec.
Character Set	100 characters, user expandable 40 International Characters
Character Attributes	Double Width, Bold, Double Underline, Superscript/Subscript
Accessories	Printer ICIAH (ICIAH-1000)
Model Number	EPSON FX-890
Paper Weight	40 g/m <sup>2</sup> (16 lbs)
Paper Width	10 to 210 mm
Maximum Paper	100 sheets (standard and cut sheet)
Memory Power	Max. capacity = 12 columns 1000 characters (2 lines)
Interface	RS-232C, Centronics, IEEE-488
Dimensions	Width 350 mm x Depth 300 mm x Height 150 mm
Weight	10.7 kg
Options	Automatic Cut Sheet Feeder (ACSF), Color printer

Review: *Revolutions in Time*

Section	Section A				Section B				Section C			
	Sub-Section 1		Sub-Section 2		Sub-Section 3		Sub-Section 4		Sub-Section 5		Sub-Section 6	
	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Item 9	Item 10	Item 11	Item 12
Section 1	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6	Value 7	Value 8	Value 9	Value 10	Value 11	Value 12
Section 2	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6	Value 7	Value 8	Value 9	Value 10	Value 11	Value 12
Section 3	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6	Value 7	Value 8	Value 9	Value 10	Value 11	Value 12
Section 4	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6	Value 7	Value 8	Value 9	Value 10	Value 11	Value 12

This section shows how to use **GOAT** to build a simple neural network.

good will it do none of us



NEWS

The QL is not dead. Two upgraded and improved versions are produced by two peripheral firms namely Sandy and Cambridge Software Technology (CST). Sandy's new QL is called the Future - features a fast 8MHz processor, memory and a half inch hard drive and a new keyboard. Through a software emulator it is Atari ST compatible. According to director Arnie Gardner launch will be in August and final specifications had not yet been decided. The price of the Future will be more or less £2100 and upgraded will be available to 20MHz later this year. Sandy is aiming at selling 1000 units per year. CST's new machine is an upgrade of the QL upgrade launched by CST last September. Called the Thor, it has an ST-style keyboard, 8MHz processor, optional Winchester drive and new packaging. It costs about £1800.

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Sage Systems, manufacturer of the famous series Sage Keyboards for the Spectrum has gone bust. Details are believed to approach £60000. Former Sage boss David White blamed legal conditions for causing him to go out of business. Meanwhile Chalk Keyboards, the company headed by former Sage Systems sales manager Chris Smith, is currently seeking a buyer for 35000 Sage II keyboards.

The new Spectrum +3 was used by Utilities from SI-Soft at the TEC Showfair in London in June 10. An apparently eager public were told that it would be available from August 1st. The Spectrum +3 will cost approximately \$270.00 and includes a 3.5" drive. Not all software available for the other two Amstrads will run on the +3. In the meantime, Locomotive Software has announced plans to make CP/M available on the new Spectrum +3. The CP/M software will be released at the same time as the +3, and will be bundled with Network BASIC.

（本章的最后部分将讨论如何在不同的情况下使用这些方法）

A new South African volume, THE **3D BLOCK** is advertised in this month's newsletter. The advertisement boasts "Never ever, Bubiks!" This should give you a good idea of the type of puzzle we are dealing with. The game is set to be a three-dimensional block consisting of smaller three-dimensional blocks. The idea is to move them from small to big and leave a space in the 7th block. Retailing at R15.00 it is cheap when compared to some other releases.

EE COMPUTING's last magazine was published in July 22 Computing was a popular U.S. magazine which dealt with the Spectrum. It used to be EE Computing that I first wrote when almost five years ago I felt as if I were the only Spectrum User in South Africa. This led to me corresponding with users from all over the world. Finding out (from a person in PMB) about Information Extravaganza and the subsequent establishment of The EE Masters Club. That's the way the cookie crumbled.

http://www.jstor.org

The unemployed Paul Bostick was fined \$100 in jail at the Bradford Magistrate Court in the U.S. after he advertised planted cases to the Bradford Telegraph and Argus.

[View more news from our network](#)

Australia's new MS-9000 based computer, called the PC1010 has taken orders of PC1010's in the U.S. by various Computer retail chain. Computerland has confirmed that it will not be selling Australia's new PC, and Open University, which has a commitment to the PC1010 after it bought 2000, expressed its concern about Australia's support for the POSSIBL Macintosh. AMSTRA has announced a new computer called the POF 2012 which is to be released in September 1987 with AMSTRA, Australia has formed an Italian subsidiary to handle all computer, hi-fi and video products.

www.guoxue.org

Morozova has measured what is thought to be the first periodically planned spectrum of a comet for late August. Gerasimov is interested for reasons in the  $\lambda 9$  especially at the same time as the  $\lambda 10$  nucleus.

[View more news from the University of Michigan](#)

DOMINUM's good spirits at shipping out 20000 units of Living Daylights have been tempered by a loss of \$2000 on the product via the hands of Creative Sparks Distributors. OSD was one of the major distributors of software in the U.S. and had been responsible for 15-16

Digitized by srujanika@gmail.com

Speaking about the new DBS, Cambridge Computer's marketing manager Peter King said: "Once after six months, everyone will be using it as a corporate tool and buying it in the thousands." He added that the various home market will continue to be targeted, but more emphasis will be put on areas such as insurance, securities and banking. In addition, King also reported that most small order customers were still waiting for their machines.

# REVIEW

Collins One Revision Software Biology  
(O Level)  
R25.40 (R35.90)

This program comes on a cassette and includes a very good Collins One Books Past Biology dictionary pocket which deals with everything from Alkalines to Uptake.

It is packed in a case box which contains the cassette and the dictionary and will fit neatly onto a shelf.

On the cassette are 8 programs. The first is a Tester program which gives quick tests on the following aspects: Plant structures, Transport in plants, Photosynthesis, Food and teeth, Digestion, Blood and Circulation, Breathing, Excretion, Human sexual reproduction, Nerve and sense, Flowers, Fruits and seeds, Ecology, Genetics and evolution. After a particular section is chosen, questions are asked on it. A brief visual which connects an activity to a verb is given, and the answer should be typed in. If you enter an incorrect answer, the first letter of the correct answer is given, then you are referred to the One Dictionary. At the end of a series of questions, a percentage is given and you are told which progress you should do to improve your knowledge.

Programs 2 to 6 deals with diseases, Diagrams of flower structures, eye structure, section through a leaf, section through the human kidney, details of human digestive enzymes, the nitrogen and carbon cycles, the circulatory system, heart and digestive system are amongst those dealt with.

Programs 7 and 8 have more questions on photosynthesis, respiration, food and feeding, genetics, reproduction, transport in animals, plant and water and sensitivity.

Programs 9 and 10 consists of games organised around a game of darts. Both programs cover Genetics, Food and Feeding, Water relations and Ecology.

SPECIMEN AREA

COLLINS GEM  
REVISION SOFTWARE

## BIOLOGY

LEVEL ONE/ONE



These programs are of the best quality I certainly better than most other educational software I've used, and deals with subjects taught to Standards 8 to 10 in South Africa. It will not replace a text book, but certainly will give you a fair idea of how up-to-date your knowledge is before you write a test/exam. I think it is ideal for revision.

The dictionary on the menu is certainly worth a lot.

Also in this series - Chemistry, Physics and Computer Studies (these are not yet available through ZIN).

### REVIEWS: COLLINS GEM

Due to the low power early voltage being too high  
Put a "THERMISTOR"  
in front of each receiver

DATA 10.00 - 100

- Accurate data flow
- 10 receivers/line
- 100 data points
- 1000 raw
- 10000





The Editor pictured with 150/60's microphone in the Room during an interview with Mr. Martini in which he commented to the allegations made in an ecological study group report that the sudden increase in the MUSHROOM CLUB's membership may have the dangerous population he asked replied that our members are not kept in the dark and fed you-know-what to which Mr. Martini replied "Oh you-knew-what".

L A B O R C L U B - this month features		
	SPECIAL	REGULAR
Glasses in Fun	\$ 1.00	15.00
French in Fun	\$ 1.00	15.00
Texas French	\$ 1.00	15.00
Lithuanian German	\$ 1.00	15.00
The German Reader Level A	\$ 1.00	15.00
The German Reader Level B	\$ 1.00	15.00
Buy both and get 10% discount!		
Intermediate English I	\$ 1.00	25.00
Intermediate English II	\$ 1.00	25.00
Junior Word Spills	\$ 1.00	25.00
The Grammar Tree	\$ 1.00	25.00
Alphabet Games	\$ 1.00	12.00
Speech Marks	\$ 1.00	12.00
Capital Spelliness	\$ 1.00	12.00
Uppercase Punctuation	\$ 1.00	12.00
Capital Letters	\$ 1.00	12.00
(\$20.00 for whole pack)		
The Anecdote	\$ 1.00	12.00
Word Cards	\$ 1.00	12.00
ABC Lift Off	\$ 1.00	12.00
Smartie	\$ 1.00	12.00
Word Wizard	\$ 1.00	12.00
Middle of the Spines	\$ 1.00	12.00
(\$20.00 for the whole pack)		
Puddington and the Disappearing Job	\$ 1.00	12.00
Learn to Read Series 1-6	\$ 1.00	12.00
Learn to Read Individual	\$ 1.00	12.00
Word Games with Mr. Ben	\$ 1.00	12.00
The French Classroom	\$ 1.00	12.00

## Competition

### July Competition Results

The correct answer is Jan Maria. The winners are Terry Cartwright, Mr. H. Leibacher and D. S. Hanson. Congratulations!

### AUGUST COMPETITION

Send the answer to the following question on the back of a post card in Rockwood before August 25th. There are three prizes: \$10, \$5 and \$2.00 gift certificates.

QUESTION: Name ten of the locally produced products presented by The ZC Mushroom Club.

## "BACKUP"

THE SOURCE OF GREAT NEW IDEAS OR THE SOURCE  
OF OLD FAMILIAR THEMES

### THE ZC BUSINESS CLUB

1971 FALL IN CLOTHING  
OPEN TO ALL GRADES 4-12 & 12-17

A 1971 FASHION CLOTHING SHOW AND SPECIAL 10%  
OFF IN THE FRESH STORES

1. 1971 FALL, WINTER, SPRING AND SUMMER, EXCLUSIVELY  
FROM FRESH CLOTHING AND ACCESSORIES INC.
2. 1971 SPRING CLOTHING AND ACCESSORIES INC., 12.  
CLOTHING SHOW, OPEN TO ALL GRADES 4-12 &  
12-17 AND VARIOUS THEMES.
3. THE SPRING CLOTHING SHOW IS HELD APRIL 1971 AT  
FRESH CLOTHING SHOW AND VARIOUS THEMES.
4. 1971 CLOTHING SHOW AND VARIOUS THEMES ARE HELD IN  
MAY AND JUNE.
5. A DAY PROGRAM IN WHICH TEEN CLOTHING AND ACCESSORIES INC.  
PROVIDE THEMES.
6. SPRING CLOTHING SHOW HELD IN FRESH CLOTHING SHOW,  
CLOTHING SHOW AND VARIOUS THEMES AND ACCESSORIES INC.  
1971.
7. THE SPRING CLOTHING SHOW AND VARIOUS THEMES IS HELD IN  
MAY.
8. COMPLETE INFORMATION AND REPORTS: DIRECTOR AND PRESIDENT,
9. 1010 1/2 ROCKWOOD HIGH SCHOOL, ROCKWOOD, ONTARIO,  
N0B 1L0. OR 1010 1/2 ROCKWOOD HIGH SCHOOL, 1010 1/2 ROCKWOOD  
HIGH SCHOOL, ROCKWOOD, ONTARIO, N0B 1L0. OR 1010 1/2 ROCKWOOD  
HIGH SCHOOL, ROCKWOOD, ONTARIO, N0B 1L0.

## ENHANING WHITE LIGHTNING - By D. Ross

Ossoft software released a utility called WHITE LIGHTNING sometime in 1984. It was, and still is, an extremely powerful sprite manipulation language and very good fast machine-code games can be written with it.

The only real problem, as far as I am concerned lies in the editor. WHITE LIGHTNING is divided into 25 screens with 8 lines to program in in each screen. Adding the command `END` at the end of the screen tells the compiler to move on to the next screen. Unfortunately, the editor can work on only one such a screen at a time and your editor has no effect on the general layout of the program. If, for example, you wish to include a sound routine and the screen where you want to add it to is full you are stuck: Insert a new line and the bottom line is lost. It would have been very useful indeed if one could have an insert command which shifts the entire program down when you add a line.

I have produced a solution using P&D, a temporary workspace used while editing. Follow my instructions carefully and you should be able to extend your WHITE LIGHTNING to include such a command. Remember to type in everything very carefully; leaving out even a space causes an error message (CR) causes carriage return when you encounter this press `ENTER`.

Firstly LOAD in your WHITE LIGHTNING program and answer `do` to load sprites or load scores. Now type in the following:

`0 LIST 0 EXIT 1 EXIT 2 EXIT 3 EXIT 4 EXIT 5 EXIT 6000`

After screen 6 has scrolled into view type

`cls`

`0 VARIABLE END 0 VARIABLE RD 0 VARIABLE LNE 1000`

`1 MZC -1 0 DO 1 0 1 0 1+ RE -1 +LOOP 1 1000`

`1 END CLR 1 1000`

`RDH 0 RD 0 DO 1 LIST MZC 1 1- LIST 1 0 1 LIST 0 RE -1 1000`

`+LOOP RDH 0 LIST LNE 0 1 0 1 0 1+ RE -1 +LOOP LNE 0 1 1000`

`1 END CLR RDH 0 LIST 1 1000`

## WHITE LIGHTNING



The CR also should now appear on the screen and your progress can be entered from line 0 to 8 of screen 8. Now type

`8 LOAD 1000`

Wait a short while for the program to be compiled. When the CR message types

`8 CLEAR 1000`

Get a blank tape ready and connect the correct leads for reading. Type

`RAWD-LOAD 1000`

to enable the new command. Type

`REDO 1000`

To enter basic. Save the code with

`SAVE "WHITE" CODE RAWD-LOAD`

In future, when you load WHITE LIGHTNING from tape, load the header of the original copy, stop the tape and continue loading the new code you have just generated.

The command `END` for Delphi has been added. There are certain system variables which point to `END`. These are `END`, `RD` and `LNE`. `END` holds the screen where you wish to end the game, `RD` holds the total number of screens from 0 to the end of your program and `LNE` holds the number of the line you wish to insert. Always add 2 to `RD` if the total is less than 24 as a safety measure.

For example, you want to insert a line of number 4, screen 8 and your program continues up to screen 10. Type:  
4 line 1 pg 8+1 x 1000 1 SET

Unfortunately, this command executes very slowly. After entering it, you could wait anything up to 20 seconds before the new program is found with the blank line added. Don't worry if you see some flickering on the monitor while you wait.

All this aside, did WHITE LIGHTNING believe  
will agree with me that it is extremely  
useful.

On the subject of **WORLD LIBERTIES**, try the following for some interesting views:

- GOI 3000 + GO 11 000 END SLEEP LOOP : 1000  
- GOI 0000 + GO 11 1 SLEEP 1 000 ) - SLEEP Loop  
- AEND

The command can be executed with  
dot (.)  
or with  
dot (.)

Do you have any problems with WETTE LIGHTING? Why not send me a letter w/o THE ZZ MUSHROOM CLUB and I'll see if I can help you.

   
    
 L L L  
 L L L  
 L L L  
 L L L

**SHOTTEL PRECISION** is one of the major software houses supporting the GE. It has a full range of their software in stock at all order of our concern is time short of the software is unparalleled in quality and is regarded as good value for money. Below the various programs have been listed together with their names and version GE series.

	NORMAL	SPECIAL
TIME	\$27.00	\$27.00
TIME TOOLKIT	\$21.00	\$21.00
DESKTOP PUBLISHER	\$27.00	\$24.00
DESKTOP PUBLISHING		
PLUS STEP-Q	\$27.00	\$28.00
DESKTOP PUBLISHING		
+ STEP-Q + EDITOR		
SPECIAL EDITION		
DESIGNER DESK TOP	\$28.00	\$28.00
PUBLISHING + STEP-Q		
+ SPECIAL EDITOR	\$24.00	\$25.00
STEP EDITION	\$21.00	\$21.00
STEP-Q	\$21.00	\$21.00
STEP-Q DESIGN WORKS		
VERSION 1	\$20.00	\$20.00
SUPER POWER	\$25.00	\$25.00
SUPER SPRITE		
GENERATOR FOR 2.0		
EDITOR	\$27.00	\$27.00
SUPER GROUP	\$7.00	\$7.00
SUPER AUTOCAD	\$4.00	\$4.00
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SYSTEM	\$4.00	\$4.00
PROFESSIONAL		
ASTROLOGUE	\$20.00	\$20.00
SUPER BASIC		
BASIC	\$20.00	\$20.00
INTERCAL	\$20.00	\$20.00
CARTOON DRAW	\$20.00	\$20.00
MANAGER	\$6.00	\$6.00
PROFESSIONAL		
ATTACHMENT	\$4.00	\$4.00
BLOCK-ADS	\$2.00	\$2.00
CODE-EDITOR	\$2.00	\$2.00
SUPER ALGOLUA	\$2.00	\$2.00
SUPER BASIC	\$2.00	\$2.00
SUPER BASIC-ADS	\$2.00	\$2.00

For those new members who have responded to  
SCOPE and **ENTERTAINMENT** advertisements, it has  
decided to extend last month's special offer  
of Super Sports Camera For \$3.  
• Super Stockcamera For \$2  
• Super All Movie Camera For \$1  
ALL FOR ONLY \$10.00 (check cash basis)

information enterprises

卷之三

University of Florida 1990 = 1990 - 1990 = 0

July 1990 1991 1992 1993

新民：金川大野太郎王曉英 王曉 胡辰 王曉辰 CHUANGXINMIN

## AMSTRAD

**THE EFFECTS OF INTEGRITY ON COMPATIBILITY: PRICES, PERFORMANCE, QUALITY, FEASIBILITY AND INNOVATION** by **BRUNO BELLARDI** **in** **Compatibility: Prices - Performance - Quality - Feasibility And Innovation** (pp. 101-119) **get the best compatibility research reported and organized in one valuable publication** **the model to measure incompatibilities and conflicts between a company's business culture, market**

COMPATIBLE WITH YOU KNOW WHO  
PRICED AS ONLY WE KNOW HOW.



The Arrested PC 1512 is probably the most important (though less popular) part of PCL. It has been a catalyst for Alan Page's designation as potential Vice Minister — the top business lawyer of PCL — with a program that appears to have profound implications for a province that has recently had oil.

Read only in a leader than the B12-1446. It is also a further 1000 and included no secondary lymphoma and leukaemia. Paulson et al. thought (and possibly) susceptibility to a modified B12-1446 factor involved.

What The Press Said To Say  
"King of the Clones": Your Computer Oct 88  
"There is much to like in SuperSoft's CPC Clone Project."  
PCW Oct 88

Journal of Health Politics, Policy and Law, Vol. 30, No. 3, June 2005  
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1063-197X/05/3003-0001\$10.00

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- System based with three main process areas
  - 1.01 Main activities associated with project and their development
  - 1.02 Functions that may influence how and when projects are carried out
  - 1.03 Functionally important documents and their relationship with other management functions
  - 1.04 Location and build on the importance of location in construction activities
  - 1.05 Major legal requirements for project delivery
  - 1.06 Construction industry experience

#### **• Questions about the study**

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100

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Figure 1. The effect of the number of hidden neurons on the performance of the neural network.

POLY-1 WITH SINGLE MONO FLAT SCREEN MONITOR  
POLY-1 WITH SINGLE MONO FLAT SCREEN COLOUR MONITOR  
POLY-1 WITH DUAL SCREEN MONITOR/COLOUR MONITOR  
POLY-1 WITH DUAL SCREEN COLOUR MONITOR  
POLY-1 WITH 20 INCH PLASMA DUAL MONITOR/COLOUR MONITOR

June 1997 PRACTICE PROBLEMS  
June 1997 PRACTICE PROBLEMS



Ordering from INFORMATION-DRIVEN ENTERPRISES is very easy. Our system can be shown by simply phoning the INFORMATION-DRIVEN ENTERPRISES at: (813) 625-5279 during business hours.

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THE BEST PRICES ON COMPUTERS, LAPTOPS, TABLETS & MONITORS



# REVIEW

The Tomorrow War  
South African Software  
Price R 12.50

## Background

The time is 2020. Little dropped 11 hydrogen bombs over Japan and China. Northern Korea was destroyed. Vietnam reduced to a smoldering pile of smoldering ashes. Russia declared war and America followed within two days. Then all forms of hostility finally ended in 2017, very little of the world was left. Australia, Europe, America and Africa were the only survivors. It is in this gloomy setting that Germany decided to unite all the countries again. Many of them would join out of free will, but a few would have to be conquered.

## Germany and Allies

The aim is to conquer the 18 countries involved by means of war or propaganda. Some countries are stronger in some aspects than others, some are generally powerful. After a few games you should find it relatively easy to become the dominant country - by manipulating people. If you have enough weapons and a high morale. The game is divided into 2 sections of planning, a section for preparation and a section for propaganda, and a section where war may be declared. Germany is divided into parts and the game ends when Germany has no more money, no more people, have conquered the 18 countries or when 80 years have passed.

## My comments

Being a strategy game, the majority of graphics are used. All data is given in a 64 character wide screen format, something to keep in mind if you know that most TV does not behave when you use certain programs (such as Taxword 2). The few graphical displays, such as the one of Europe are very good.

To win the game, one has to concentrate and take all the factors into consideration before making any decisions. A pen and paper comes in handy to keep track of all the variables - e.g. money, etc., propaganda etc. etc.

South Africa is not included in the list of 18 countries to survive The Tomorrow War. Neither is South Africa. The uniting country Germany was chosen for that. So the writers do this because of a lack of resources? Were they going to call our country South Africa or Angola and therefore left us out? Or do they doubt the existence of South Africa/Africa by the year 2020? Or did they overlook that the Germans would have established the Faschland and that no foreign intervention such as a hydrogen bomb would be tolerated? Or did they lack legal advice and didn't want to be prosecuted for using these propaganda techniques on your home-area?

Anyway, apart from this apparent omission, the game's quality is as good as any from abroad, and deserves a good support from South African strategists.

Packaging is done in an ordinary cassette case, the boxart is (printed) black and white and the instruction booklet is (printed) in small print. Overall, the packaging is not as impressive as the British counterparts, but then you do not pay that much (either give up on packaging than game quality). It is also understandable if one remembers that South African manufacturers cannot invest a lot in production since the market is smaller than in the U.S.

At the price, it is very good value for money.

- Bert Coetzer

## The Budget



The complete home budgeting program. It is the latest in home accounting software and allows you to draw up a budget, bank reconciliation and to monitor a check and expense recording facility. This program dramatically simplifies all your financial and expenditure problems.

Very popular home based software. To avoid disappointment, order your copy now. It still costs only R 12.50 + VAT + P&P (Global 10% off).

The ZI Software Club supports local software - do you?

## MODEM / ACOUSTIC COUPLER

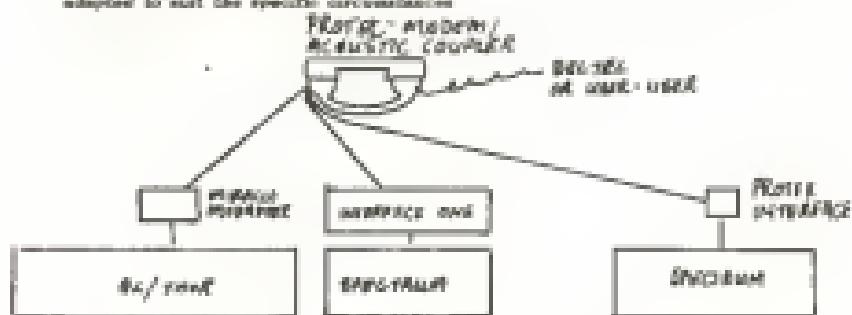
The advantages of using a Modem for transmitting data are

(a) It is portable and can be used on our telephones.

(b) It does not need any modifications to the telephone lines.

(c) It enables the home computer to communicate with main computers like Bellmail or any other computer.

(d) The software for communication is not based on CP/M and therefore it can be adapted to suit the specific circumstances.



### COST OF LINKING UP WITH BELTEL OR USER TO USER

RS 129.00	Modem	RS 20.00 Interface I	RS 10.00 Protel Interface
RS 30.00	Cable	RS 30.00 Cable & Software	8.00 Software
RS 29.00	Modem	RS 10.00 Modem	RS 10.00 Modem
-----	-----	-----	-----
RS 188.00	TOTAL	RS 60.00 TOTAL	RS 30.00 TOTAL
		That you may already have an Interface I	

### ONE DAY SPECIAL

ON AUGUST 28TH 1987 THE MODEM/ACOUSTIC COUPLER WILL BE SOLD FOR ONLY RS 129.00

You can create your Spectrum data base if you already have an Interface I for Rs 10.00

RS 129.00 MODULATOR SPECIAL ALSO ON THIS AUGUST 28TH - ONLY RS 129.00

WE CHALLENGE ANYONE TO BEAT THIS! IT IS THE CHEAPEST WAY INTO BELTEL

### QL/XTEND OWNERS

ON SPECIAL THIS MONTH -

	NORMAL PRICE	SPESIAL PRICE
ANTIQUE STORM	RS 70	RS 30
REVIEWS	40.70	20.00
GARDENERS	31.00	20.00
EDUCATOR MARKET	140.00	80.00
CASH TRADER	245.00	177.00
BESTSELL	29.70	20.00
ASSEMBLER	74.00	30.00
MACRO ASSEMBLER	97.00	60.00
BONK FINANCE	29.25	20.00
PROJECT PLANNER	180.00	100.00
MONITOR	24.00	10.00

### WCPI OR PLOTTER / PLOTTING

Normal Price	RS 100.00
Special August Price	RS 69.00

Send in RM for a copy of our review in a previous newsletter (RS 20)

All resolution screen dump, Print and Plot can be achieved on the WCPI 80 using the latest Z80 PRINT III on ordinary Spectrum disk or cartridge

- Standard Test Paper
- Read sentence to follow answer as the computer prints them
- Photo Attached.

## QL EDUCATION

### Related Mail Numbers

Bar Webber	221028
JAN Flaps	221029
Dr MH Structure	221030
TE Leftheris	221031
Peter Sheldan	221032
John Forbes	221033
Sabrey Brown	221034
Thomas Cheneay -Jones	221035
PA Gorham	221036
Stanley Lewis	221037
RA Stinson	221038
AGT Kynoch	221039
R Levy	221040
Graham Ross	221041
Edward Reid	221042
RJH Roman	221043
F Jacobs	221044
AGS Gourvane	221045
MF Kilian	221046
Dr AH Waterman	221047

I will be taking the next two months off

The only effect this will have on the newsletter is that you will find less spelling mistakes!

In the meantime you could do me a favour. Please send in your demand that my demand for an instant editor be met as soon as possible.

### - Dr Peter Comfort

All our children come home from school and when they are very young it can be quite tedious listening to their homework. This little program helps with spelling. My little daughter can't wait to do her spelling and I usually find her waiting for me when I get home and I am most impressed how it has increased her enthusiasm and skill at spelling. Just as important, she is developing a computer key board skill and she is quite at home with the computer. She is 8 and a half and is Std 1

The program starts by asking for the number of words. The screens are currently set up for ten words of ten characters each. Adjustments to Line 20 for the number and length of words can easily be done.

The program then asks you to type in the correct words. After these have been entered, the program then calls for the option spelling list to be entered. This can be done by simply calling out the household spelling words at random. When all the words have been entered, the program then lists each word that has been entered by the child. Correct words are printed in green, followed by "CORRECT". Incorrect words are printed in red followed by "Wrong!". At the bottom of the screen a word is given. If all the words are correct, the child is given a congratulatory message. A small menu then appears which gives the option of trying again, if there were any wrong spellings, starting a new game if fresh words are to be tested, or a exit message for quitting.

Naturally she is never allowed to quit before she gets the congratulatory message!

The program works by a simple string search routine. For those who do not own a QL or have no knowledge of SuperBasic it gives an example of "top down programming" and the advantages of being able to write procedures and functions via

Running the main program drivers demonstrate how one can tackle the problem by simply naming the steps involved.

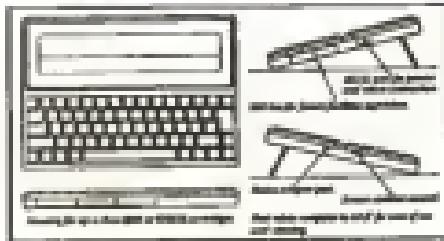
I wish to emphasize that it is a child spelling program and one would not be expected to enter large numbers of words as the techniques used in the program are not appropriate for a full spelling checker.

The number of processes that the computer has to do will be the square of the number of words entered. i.e. ten words will require 100 calculations and 200 will require 400 calculations etc.

The amount of time involved in doing string searches would therefore be inappropriate for a large number of words. Nevertheless it will certainly cope with any normal child's homework. I do hope that some of our parents find this use for this little program.



# THE Z88 A COMPUTER WITHOUT COMPROMISE!



GERT COETZEE's REVIEW AFTER EXTENSIVE USE OF THE FIRST Z88 IN SOUTH AFRICA

One of the advantages of being the Editor, is being "in" on new developments - and in this newsletter I share with you another of Sir Sinclair's dreams which came true. You, I had no hands on the only Z88 in the good old N of SA for 8 full days.

As you know, the inventor of the Sinclair series of computers copied Sinclair Research once upon a time. That same had three, and the company was sold to Alan Sugar's AMSTRAD. Sir Clive Sinclair founded a new company called CAMBRIDGE SYSTEMS (CS) and it was rumoured that CS would bring out a portable called the Phoenix.

On 17 February this year on the Which Computer? show the Z88 was unveiled. Now, only a short while later (by Sinclair's standards) it is clear to me what the Sir meant when he promised us a computer without compromise.

## PRESERATION

The Z88 will sell (through INFORMATION ENTERPRISES) at R220-00. It is sold in a silver box (Box 2) (Box 1 box which has a handle - probably just portable). One side of the box opens. It is hinged and reveals a partition separating the compartments for the manual and Z88 itself.

So far, I'm impressed.

## HARDWARE

As all Sinclair owners could have guessed, the computer is black. Its vital statistics are: 2MHz Zilog Z80A (digital) X 16m (bytes). The keyboard area takes up the front 20mm of the depth and the display area the back 2m (the screen itself measures 13cm X 19cm). The basic Z88 with batteries weighs 810 grams! - how's that for portability?

The keyboard is described as having "wheel moving" keys. This, however, is an inaccurate way of saying it is made of the same latex Gribhart which was used for the original Spectrum BUT PLEASE READ ON! When I say that I wanted to cry, but got snarled together and faced reality. I glad I did. The individual keys are not separated by a metal overlay as on the Spectrum, which make writing of the keys difficult at times and touch typing tough. The keys are not spaced to each other as those on the QL, so if it had to be like that, this is a good compromise. And let's face it, no other key mechanism would have fitted into such a portable portable. The underlying mechanism, as on all other Sinclair designs is a nonsense. As SINCLAIR USSR said in their review "It isn't actively finger-tapping bad". In fact, my typing speed is 40 words per minute, and the Z88 handles it quite well.

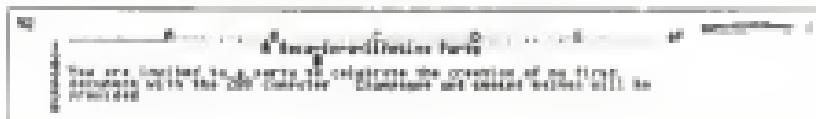


On the right hand side is a RS232 port and parallel I am glad to report that by the looks of it it is a standard RS232 port and can be used to send floppy disks, printer or supported through the built-in software or to communicate with any IBM or IBM compatible through the built in floppy/report software. This software can be used to export to or import from any IBM compatible. A disk with converting software (RS232) will be needed by the host computer and will make IBM data compatible with Lotus 123 WordPerfect and Wordstar data. The RS232 can also be used of the IBM or used as a terminal through the built in Terminal software. This software uses the RS232 protocol for communication between the IBM and another computer or the IBM and another IBM. Another use for the RS232 port is communication through a modem (232725 from 123) which will be Parallel Jmodem therefore Parallel compatible - 1200/720 baud. That means (say a fast Hayes - I doubt whether graphics will be handled satisfactory). The system should either have basic 160x120 baud rates and that database uses the Master access enhancement feature will come up with much a notice.

Also on the right (continued) is a ROM expansion bay which has all the possibility of handling future peripherals for OS or enhancement expansion. A useful peripheral could be a disk drive, preferably IBM compatible.

On the left hand side are a main adapter port, a power button and a power indicator/light. The power button is hidden and will only be used the day you buy the computer - no chance of accidentally turning it! Since the computer has a real time clock, it is never completely off - data is maintained through the 'sleep' state!

The screen is a Liquid Crystal Display (LCD) screen. I found nothing wrong with it except for the fact that the screen area has to be at least 16x16 not at ten long and angular with the display. The backlit and反轉式 type LCD may have been a better choice but this takes up more space, costs more and needs more power. The letters on the display are quite clear on flickering and in fact the best resolution I've seen on a computer/computer of this size. One minor negative aspect is the lack of true dimensionality e.g. giving the sort of hang to the air.



On the rear there is a stand which can be pulled down to allow the computer to stand at an more acceptable angle. Also on the rear is the battery compartment. Four AA light batteries are needed. The batteries are used to last 20 hours or full use of the year if when the computer is used the main adapter port (the a more likely to used I would think that one should buy 8 rechargeable batteries) is recharge and swap the batteries whenever the batteries are used or displayed. These batteries are prepaged depending on the memory expansion or the IBM function of a special adapter you have up to 4 minutes to make the swap without data loss. If you have the main adapter plugged in you can take your time - no fear of data loss.

On the front there is a slot to the handle of up to three RAM or EPROM cartridges - more about this later?

The CPC uses four main chips including a custom chip which handles the display and a Z80 processor.

The basic CPC comes with a 128 RAM 16K which is available to the user (maximum of 2048 words). This, however should not put you off.

#### RAM/EPROM

As said before on the front, up to three RAM or EPROM cartridges can be plugged in. These RAM and EPROM cartridges measure 3.5" x 5" x 1" thick.

RAM cartridges are available in 128 (164 001) or 256 (0165 001) words. This means that you can have 256 available as a maximum in RAM. This is enough to hold the equivalent of a 100 pages paperback novel ready for immediate access and editing. The RAM cartridges can not be removed without loss of contents.

An alternative to these RAM cartridges are EPROM cartridges, available in 256 (848 00) and 128K (848 05) units. The difference is that these EPROM cartridges can be programmed without loss of data. Should one want to erase the contents of such an EPROM, an UV Eraser is necessary (8196 05).

One can read and write to RAM or EPROM in one mode or switch to type or data in other modes. EPROM is said to have more advantages - it is not so delicate as disks and do not scratch or break so easily do. As long as you do not expose them to ultra violet light no harm will come to your data.

Similarly to say, you can have any combination of RAM or EPROM cartridges plugged in at once.

Already under development at CAMBRIDGE SYSTEMS are 1 Mbyte (capacity is 10000) EPROMs which will allow you to have up to 3 Mbytes plugged in for instant access. 3 Mbytes will hold the complete works of Shakespeare!

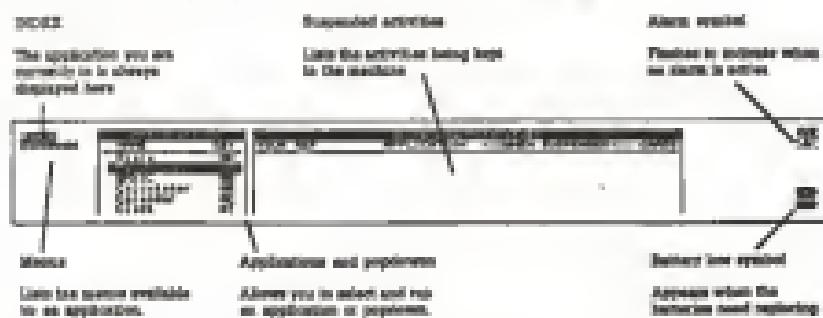
## SOFTWARE

Included in ROM and instantly accessible are a range of 11 applications. They are dealt with below:

The display screen for these applications is divided into four sections:-

- (1) a large wide area of 8 X 40 characters which is scrolled both horizontally and vertically;
- (2) a smaller version copy of the complete page in the case of the word processor, database and spreadsheet, which is changed and updated as these are used;
- (3) status screen - having various / status
- (4) status section - for store, memory and battery status

Whenever the DECODE key is pressed, the following screen appears:-



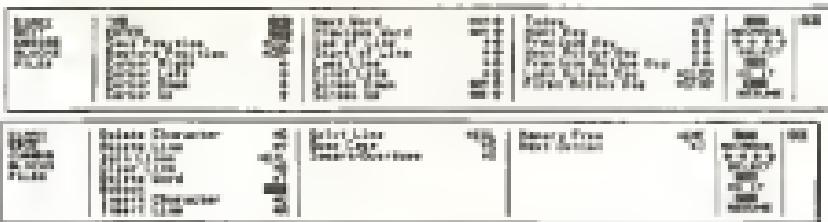
On the right a list of all possible menu's for the specific Application you are using appears. One can switch menu by pressing the MENU key. Of course, it is not necessary to go through all menus to get to a specific function. All functions have a code e.g. 00 for BASIC, 07 for Pipework, 09 for width specification etc. etc. This can be typed in directly using the # and @ keys and the appropriate code.

The next part of the DECODE screen displays all suspended activities (i.e. if there are more than six, the first six, the others can be recalled) Activities are suspended if you press DECODE while you are busy using an Application - it is automatically suspended and listed here. You can continue with this or any other suspended application or start a new application by clearing with the cursor. Information regarding suspended activities displayed are type reference and day and time when suspended.

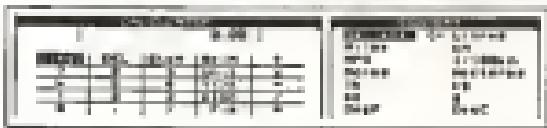
As said before, there is only 192 RAM on the Basic 2000 available. This RAM is used mainly to keep track of the suspended activities.

The 12 Applications are:

1. The Block - make an entry, move between data, search for entries and calendar it, diary together.



2. The Calculator - Clear, Delete, 9 Memories, Swap x and y, x<sup>y</sup>, x<sup>1/y</sup>, change sign, x, y, unit for converting units e.g. gallons <=> liters, operations



3. The Calendar - search for a day, display a month, display active days (the days which have entries in the diary)



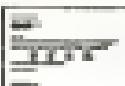
4. The Clock - day, month, year, time

5. The Alarm - set the alarm to go off on a specific date at a specific time - or a specific date every year, or a specific time every day, etc etc

6. The File - to keep track of documents stored on EPROM or RAM cartridges (catalogue, move file, make copies, remove file etc etc). If at a later stage a disk is attached to the BBC the same functions will be used

7. The Page - allows you to set up aspects of the BBC's operation to suit your own preferences. You can alter the rate at which keys on the keyboard are scanned when held down, the time after which the BBC automatically switches to sleep, default device and parameters for the serial interface

8. Findress - this is the all-in-one WORD PROCESSOR, DATABASE and SPREADSHEET in features



Page display map  
displays a map of the  
page on the current page

#### Operations on Objects and slots



#### Moving Around the Document



#### Working with files



#### Editing text and expressions



#### Altering the document's layout



#### Document's options



#### Printing Documents



Expression slots - any slot in a PipeDream document can be designated as an expression slot, in which case the expression tree type in it will be evaluated and the result will be displayed in the corresponding position in the document - thus acting as a spreadsheet within the word processor.

BBC Books - due to limited space I will not go into this. You might ask, why BBC Books? Obviously Shostak could not get permission from Asmat to use Shostak Books in his new computer!

11. Printers - showing the existing printer driver used in PrintScreen for your own printer (bold, underline, etc.)

12. Terminal - provides protocol for communication between the Z80 and another computer

13. Import/Export - allows files to be exported or imported from/to IBM format.

## MANUAL

The Manual is a 28 x 28 cm, ringbinder, softcover, 212 pages, high quality paper, book. It has no the user is connected, everything is dealt with in full details and the user is coached step by step. However, the second cover short on information on the use of the Terminal Application. If we typed this review on the Z80 and then I sent it over to the QL, not by using the understandable Terminal software, but by using the Print Option, through a Z80 serial to QL serial cable which I made up, and it worked O.K.!

Not to mention, the complete lack of user information on the hardware - nothing about the expansion bus, nothing about the Z8000 chip. Nothing! Grrr.

## ME FINAL WORD

TODAY COMPUTER said "definitely looks promising and if supported properly could be a great success", RINGLAIR VIDE said about the previous model "It's black, it's cheap and it's not finished".

My own opinion is that the unit I had for review is definitely the final product - state of the art, high tech good stuff.

Earlier portable computers such as the NEC PC-9800 and TANDY MODEL 100 costed approx £1200.00. For the same price you can get the basic Z80 (28020 020) plus three 128K EPROMs or RAM plus an Eprom Reader. So as long as you realize the basic unit is not your final unit, the Z80 is cheap.

The Z80's use as a cheap portable terminal for the businesses you will download documents and data from your IBM in the office and look/word with it at home. Journalists, think of the possibilities - you can send your article through a modem straight to the editor's desk. Researchers can follow the trend set by Metropolis - they use the Spectrum in the customers house to work out the details of a policy - the Z80 is even more portable. Researchers, when doing field work, data do not have to be written on forms, you can type in data on the Z80 and download it once you get back.

As it stands, it is limited (as is the case with all new computers) but it has impressive applications and a futuristic design. With sufficient backup in the form of add-on hardware such as modems and disk drives, I believe EPROMs, software or ROM the possibilities are endless.

As a very powerful word processor, diary and alarm clock and general desk-top organizer I know that quite a number of our members will be interested in the Z80 as first or as second home computer.

Please note that the prices mentioned in this article are approximate/maximum.

## DEFINITIONS OF ACRONYMS

USED

IN

THIS

ARTICLE

**RAM** - Random Access Memory memory which under the no volatile limitation, allowing its contents to be changed while to the user or operating system. The processor is able to use the RAM for programs as well as well for storing data for immediate use. The Z80 uses a DRAM (Dynamic Random Access Memory) - a RAM type which requires to memory after power-down. This uses the fact a very low current voltage is still supplied

**Z80** - Rapid cycle Microprocessor Z80 can not be written to, neither can the contents be destroyed by overwriting or by depriving the chip of power - information is stored in the transistors in the silicon.

**ROM, EPROM, PROM** - The last known acronym (ROM was the last one you will never see because after more logic, but there are ten other memory storage technologies, electrostatically erasable and electronically erasable (EEPROM and EEPROM). Programs for the Z80 will come on ROMs (i.e. ROM Programmed by Definition ROMs). The Z80 User will make use of either ROM or Electrostatically erasable EEPROMs.

## **YOUR ADVERTISEMENTS**

The newsletter is read by over 6000  
open Board to peer and plan file per word  
to our postal address to reach us before  
the end of the month.

Speakerphone K170; Keyboard K80; Recorder  
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400 Spectra with Sage Kayboard, Data recorder, 15 originals. \$ 1.40 Min. Taxes all for R100 Contact Stephen between 3 and 7 pm Monday to Thursday Tel 0121-5723222

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Synthesizer, Sony DR-303 Data Recorder  
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Microdrive Cartridges, All with  
stilts, glasses etc. Second Hand.  
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North at least \$2000. I WANT ONLY  
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Spectrum 888. Stage 3 Backward & read bottom. Temperature 30°c and Intensity. Multibeam One. Light Pan Monochromat, 20 stages and book "Supercharge your Spectrum". All for ESRIC 6000. Photo 111111111111 after 15000.

LIGHT IN Surface 1100 - Power 100W  
at 10000000

POB 54128 One XX Spectrum East One  
Interprise 1 Rydell One Brother EPH  
Printer coupled with above EPOS Photo  
Mr. van Heukelom 021-311188 after 14:00

If a member living near Springfield has any knowledge of the Safford case and ELLIOTT, could you please contact Mrs. Thurber at Thurber Farm, P.O. Box 57112, Springfield, 25-29

Mr Mohamed wrote "Dear Sirs we have just made  
the Space Barrier and Radio" by the way.  
PCP1 Intell will give you infinite intell  
in "Star Glider". Please note this applies  
to those who have the necessary hardware  
(i.e. Multifire II Does anyone have any  
other prices for "Star Glider"?

THOUGHT FOR THE MONTH: A computer is only as  
good as the people who are assigned to  
service the people who were made redundant  
by the computer

Mr Mohamed asked whether it is possible for  
**INFORMATION ENTERPRISES** to distribute  
**SINCLAIR USER**

He did investigate this. If they import the  
magazines, they will do this by air, which  
will mean that members will receive their  
magazines in the month it is published in  
the U.S. However, the price will be more or  
less the same as the price currently charged  
by C.R.A. etc. Who report the mail? Any  
comments?

TOP 30

TOP 30	
Title	Publisher
ARMY SIMULATOR	1
MILIT. RACER	2
SABERWING	3
STORMRANGER	4
FROG	5
OLYMPIC SPECTACULAR	6
FOOTBALL MANAGER	7
J-RACE	8
BLAZARACER	9
GO! FAR	10
BIG FAK	11
WOLFMAN	12
RACE RECORD	13
BUN FOR GOLD	14
CRAZE AND CRAZ	15
VAMPIRE	16
CODE MARTIERS	17
MASHTERBASIC	18
PALACE	19
MASHTERTRONIC	20
BULLDOGS	21
ALTERNATIVE	22
ADVENTURE	23
PIPERED	24
CODE MARTIERS	25
BIT FAR	26
BLAZARAC	27
PIPERED	28
ALTERNATIVE	29
PIPERED	30
CODE MARTIERS	31
ARMY MONKES	32
SEASIDE OF MORROCO	33
ENDLESS RACER	34
COURSE OF TREASURE	35
LADYBIRD	36
GARDENLET	37
SPEED KIDS 2	38
PAPERBOY	39
BIT 2	40
HEAD OVER HEELS	41
CABOFRONT 2	42
TOURNAMENT LEAGUEBOARD	43
HYDROPOOL	44
BB	45
INDOOR SOCCER	46
IMAGINE	47
MELBOURNE BOOM	48
ACTIVISION	49
MASHTERTRONIC	50
ACROSS-U'S GOLD	51
US-GOLD	52
MASHTERTRONIC	53
ELITE	54
DURBELL	55
OCEAN	56
DURBELL	57
ACCESS-USGOLD	58
FTL	59
MASHTERTRONIC	60
ALTERNATIVE	61